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(71) Applicant (for all designated States except US): **UNIVERSITÀ DEGLI STUDI DI PADOVA** [IT/IT]; Via 8 Febbraio, 2, I-35122 Padova (IT).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **CALABRESE, Fiorella** [IT/IT]; Via Magellano, 44, I-35030 Selvazzano Dentro (IT).

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(54) Title: METHOD FOR SIMULTANEOUS EXTRACTION OF NUCLEIC ACIDS FROM A BIOLOGICAL SAMPLE

(57) Abstract: A new method of simultaneous and separate extraction of deoxyribonucleic acid (DNA) and ribonucleic acid (RNA) from a biological sample, indifferently from fresh, frozen, fixed or autoptic tissue with a weight no less than 5 mg. The main steps of the method are: 1/ sample lysis in a solution composed of a caotropic agent (urea or guanidine salt), a ionic detergent (SDS or SLS), a proteolytic enzyme (proteinase K, trypsin, chymotrypsin, pepsin or pronase), a reducing agent (β -mercaptoethanol or dithiothreitol); 2/ deproteination; 3/ precipitation of RNA from aqueous phase; 4/ precipitation of DNA from organic phase. The invention includes an extraction kit for nucleic acids, also of viral origin.



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